



PRODUCT-DETAILS

LS60M31B11

LS60M31B11 Limit Switch



General Information	
Extended Product Type	LS60M31B11
Product ID	1SBV011331R1211
EAN	3471522005298
Catalog Description	LS60M31B11 Limit Switch
Long Description	LS60M31B11 is a 60 mm wide, reinforced Limit Switch made of zinc alloy material (Zamak), with 2 mounting holes at the top, 3 Pg13.5 cable entries on the bottom and sides, plastic roller lever (Ø22 mm) on steel plunger actuator for horizontal movement and 1 N.O + 1 N.C snap action (Zb type) contacts

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads	
Data Sheet, Technical Information	1SBC141157C0202

Dimensions

Product Net Width	62 mm
Product Net Height	130 mm
Product Net Depth / Length	44 mm
Product Net Weight	0.278 kg

Technical

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Snap action contacts
Actuating Force	Minimum Force acc. to IEC 60947-5-1 12 N
Actuation Speed	acc. to IEC 60947-5-1 Max. 1.5 m/s acc. to IEC 60947-5-1 Min. 0 m/s
Actuator Type	Ø22 mm polyamide roller lever on stainless steel plunger
Angular Head Adjustment	adjustable head every 90°
Angular Lever Adjustment	none
B10d Value	Operations 50 Millions
Climatic Withstand	according to IEC 68-2-3 and salty mist according to IEC 68-2-11
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, Θ = 40 °C 10 A
Connecting Capacity	Bar AWG 20 ... AWG 14 mm ² Bar 0.5 ... 2.5 mm ²
Consistency (Measured over 1 Million Operations)	0.05 mm
Contact Element Form (acc. to IEC 60947-5-1)	Zb
Connecting Terminals (delivered in open position)	M3.5 (+,-) pozidriv 2 screw with cable clamp
Degree of Protection	acc. to IEC 60529 IP66
Electrical Shock Protection acc. to IEC 536	Class I
Maximum Electrical Switching Frequency	3600 cycles per hour (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour
Mechanical Durability	0 cycle
Mounting by Screws (not supplied)	2 x M5 screws
Movement to be Detected	30° Unidirectional Cam Translation Movement
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number and Type of Bottom Cable Glands	Pg 13,5 Cable Gland
Pilot Duty UL/CSA	A600 Q600
Positive Opening	Minimum Force acc. to IEC 60947-5-1 40 NEW

Operation Force (Direct Opening Action)	
Positive Opening Operation of NC Contact (s)	Yes
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Operational Current AC-15 (I _e)	(230 V AC) 3.1 A (400 V) NC 4 (24 V) 10 A (130 V) 5.5 A (240 V) 3 A
Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 500 V acc. to UL/CSA 600 V
Rated Operational Current DC-13 (I _e)	(24 V) 6 A (110 V) 0.6 A (125 V) 0.55 A (250 V) 0.4 A
Resistance Between Contacts	25 E45
Short-Circuit Protective Devices	gG Type Fuses 10 A
Terminal Marking	according to EN 50013
Terminal for Protective Conductor	M 3.5 (+,-) pozidriv 2 screw with cable clamp

Environmental

Ambient Air Temperature	Operation -25 ... +70 °C Storage -30 ... +80 °C
Resistance to Shock acc. to IEC 60068-2-27	Half-sine Pulse for 11 ms, No Change in Contact Position 50 m/s ²
Resistance to Vibrations	No Change in Position of Contacts Greater than 100 µs: 25g 10 ... 500 Hz

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SBD251097E1000
RoHS Information	1SBD251097E1000
RoHS Status	Following EU Directive 2011/65/EU
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CQC Certificate	CQC2004010305127663
cUL Certificate	9AKK107991A7379
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Declaration of Conformity - UKCA	1SBD250886U1000

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	45 mm
Package Level 1 Depth / Length	70 mm
Package Level 1 Height	140 mm
Package Level 1 Gross Weight	0.299 kg
Package Level 1 EAN	3471522005298

Classifications	
ETIM 6	EC000030 - End switch
ETIM 7	EC000030 - End switch
ETIM 8	EC000030 - End switch
eClass	V11.1 : 27270601
UNSPSC	39121500

Categories
Low Voltage Products and Systems → Control Products → Sensors → Limit Switches

